



EMSL Analytical, Inc.

Asbestos Data Package

**EMSL Order ID's 041226130
Project 4500000719-EE-002233-0809-01TTO
Data Package 1**

Prepared By: EMSL Special Projects Group

Date: November 12, 2012

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1. Case Narrative



EMSL ANALYTICAL, INC.
200 RT. 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-0235

November 12, 2012

Mark Woodke
Ecology & Environment, Inc.
720 3rd Ave, Suite 1700
Seattle, WA 98104
(206) 624-9537
MWoodke@ene.com

Re: Narrative, Project 4500000719-EE-002233-0809-01TTO; Bulk samples for PLM CARB 435 Level A analysis; EMSL Order ID 041226130.

Dear Mark:

On October 4, 2012, EMSL Analytical, Inc. in Cinnaminson, NJ received 9 Bulk samples via overnight carrier from Ecology & Environment, Inc. for asbestos content analysis via PLM CARB 435 Level A. These samples are associated with Project 4500000719-EE-002233-0809-01TTO. Samples were received under Chain of Custody (COC) in good condition, and logged in following normal lab procedures.

PLM CARB 435 Level A Analysis

All samples were dried prior to being placed in a freezer mill. Samples were not sieved, or processed in a muffle furnace, and were not treated with hydrochloric acid. The milled samples were then analyzed via polarized light microscopy (PLM) using the CARB 435 Level A SOP and the procedures from the EPA 600/R-93/116 method.

Results

All data was reported on a % asbestos basis. As per the CARB 435 Level A method SOP, any sample having asbestos content (visual estimation) ranging from <1% to 10% was subject to a 400 point count. The limit of quantification for this method is <0.25%.

QC Performed

QC was performed in compliance with EMSL's Quality Assurance Manual. For this sample set, 1 intra-analyst sample was analyzed.



www.emsl.com



EMSL ANALYTICAL, INC.
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

 11-12-12

Stephen Siegel, CIH
Asbestos/Silica Laboratory Manager,
EMSL Cinnaminson, NJ

 12 Nov 12

Robyn Denton
Laboratory Manager,
EMSL Cinnaminson, NJ





2. Tabulated Sample Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnasblab@EMSL.com

EMSL Order: 041226130
CustomerID: ECOL44
CustomerPO:
ProjectID:

Attn: **Mark Woodke**
Ecology & Environment, Inc.
720 3rd Ave
Suite 1700
Seattle, WA 98104

Phone: (206) 624-9537
Fax: (206) 621-9832
Received: 10/04/12 2:20 PM
Analysis Date: 10/17/2012
Collected: 9/26/2012

Project: **Burlington Hill; 10ZZ; EE-002233-0809-01TTO**

**Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method
with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
12090102 041226130-0001	LOCATION 1- WEST	Tan Non-Fibrous Homogeneous		99.50% Non-fibrous (other)	0.50% Actinolite
12090104 041226130-0002	LOCATION 1- MIDDLE	Tan Non-Fibrous Homogeneous		99.25% Non-fibrous (other)	0.75% Actinolite
12090105 041226130-0003	LOCATION 1- EAST	Gray Non-Fibrous Homogeneous		99.50% Non-fibrous (other)	0.50% Actinolite
12090107 041226130-0004	LOCATION 2- ALONG DRIVE-WAY	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
12090109 041226130-0005	LOCATION 2- WEST OF GARAGE	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
12090111 041226130-0006	LOCATION 3- NORTH END QUARRY	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
12090112 041226130-0007	LOCATION 3- SOUTH END QUARRY	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Garret Vliet (9)


Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The test results contained within this report meet the requirements of NELAC unless otherwise specified. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 10/17/2012 10:00:14

Test Report PLMPTC-7.25.0 Printed: 11/1/2012 12:39:19 PM

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.emsl.com>cinnaslab@EMSL.com

EMSL Order: 041226130

CustomerID: ECOL44

CustomerPO:

ProjectID:

Attn: **Mark Woodke**
Ecology & Environment, Inc.
720 3rd Ave
Suite 1700
Seattle, WA 98104

Phone: (206) 624-9537
Fax: (206) 621-9832
Received: 10/04/12 2:20 PM
Analysis Date: 10/17/2012
Collected: 9/26/2012

Project: Burlington Hill; 10ZZ; EE-002233-0809-01TTO

**Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method
with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity**

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
12090114 041226130-0008	LOCATION 4- NORTH END	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
12090115 041226130-0009	LOCATION 4- SOUTH END	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Garret Vliet (9)


Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 10/17/2012 10:00:14

emsl_TempExport

ORDER	CUSTSAMPLE	LABNUM	TEST	ASB_TYPE_1	ASB_AMT_1	ASB_TYPE_2	ASB_AMT_2	ASB_TYPE_3
041226130	12090102	041226130-0001	PLM CARB 435 Level A	Actinolite	0.50			
041226130	12090104	041226130-0002	PLM CARB 435 Level A	Actinolite	0.75			
041226130	12090105	041226130-0003	PLM CARB 435 Level A	Actinolite	0.50			
041226130	12090107	041226130-0004	PLM CARB 435 Level A					
041226130	12090109	041226130-0005	PLM CARB 435 Level A					
041226130	12090111	041226130-0006	PLM CARB 435 Level A					
041226130	12090112	041226130-0007	PLM CARB 435 Level A					
041226130	12090114	041226130-0008	PLM CARB 435 Level A					
041226130	12090115	041226130-0009	PLM CARB 435 Level A					

ASB_AMT_3	Treatment	Color	Homogeneity	NON_ASB_FIBROUS_AMT	NON_ASB_NONFIBROUS_AMT
	Crushed	Tan	Homogeneous	0	99.5
	Crushed	Tan	Homogeneous	0	99.2
	Crushed	Gray	Homogeneous	0	99.5
	Crushed	Brown	Homogeneous	0	100
	Crushed	Brown	Homogeneous	0	100
	Crushed	Gray	Homogeneous	0	100
	Crushed	Gray	Homogeneous	0	100
	Crushed	Brown	Homogeneous	0	100
	Crushed	Tan	Homogeneous	0	100

3. Worksheets/Benchsheets

**PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep
(Milling) Level A for 0.25% Target Analytical Sensitivity**

Client: Ecology + Environment

Logged: 10/4/12

TAT: 2 Week

Address: 720 3rd Ave

Date/Time Due: 10/18/2012 2:20:00 PM

Suite 1700
Seattle, WA 98104

Fax: 1072 14112 Dm

Project: BURLINGTON HILL/ 1022

Special Instructions

Order Number

041226130

COMPONENT TYPES										MICROSCOPIC														
Macroscopic			Treatment	Asbestos			Fibrous			Non-Fibrous			Optical Properties											
COLOR (C) 1 Brown 4 White 7 Black 2 Gray 5 Red 8 Silver 3 Tan 6 Various 9 Blue 10 Yellow			1 Teased 2 Crushed 3 Dissolve 4 Ashed 5 Heated 6 Melted	1 Chrysotile 2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite			7 Cellulose 8 Glass 9 Min. Wool 10 Synthetic 11 Other 12 Wollastonite 13 Hair			14 Quartz 15 Mica 16 Gypsum 17 Cal. Carbonate 18 Matrix 19 Perlite 20 Other			Morphology (M) 1. Wavy 6. Scalloped 2. Straight 7. Pitted 3. Uniform Diameter 8. Medulla 4. Ribbon-Like 9. Exotic Shapes 5. Tapered Ends 10. Other				Sign of Elongation (S) 1. + 2. - 3. Variable							
TEXTURE (T) 1 Fibrous 2 Non-Fibrous 3 Other													Pleochroism (P) 1. Yes 2. No				Birefringence (B) 1 Low: 0.010 2 Med 0.010-0.050 3 High >0.050 4 None 0.00 or Isotropic			Fiber Color (FC) 1 White 2 Brown 3 Beige 4 Blue 5 Green 6 Colorless			Extinction (E) 1. Parallel 2. Symmetrical 3. Oblique 4. Undulose	
HOMOGENEITY (H) 1 Homogeneous 3 OTHER 2 Heterogeneous 4 Layers (#)			Stereo Asbestos Est. %	Asbestos Type	% of Asbestos	Other Fibrous Type %	Non-Fibrous Type %	Non-Asb Char. Ex. E4	Optical Properties															
Sample	Macrosc.	Treat																						
-01	(C) 2/3 (T) 2 (H) 1	1/2	-	5	0.50		20	99.5		1.623 ^L R.I.	1.637 ^R R.I.													
										2 ^M	1 ^S													
										2 ^P	2 ^B (FC) 6 3													
-02	(C) 2/3 (T) 2 (H) 1	1/2	-	5	0.75		20	99.25		1.623 ^L R.I.	1.640 ^R R.I.													
										2 ^M	1 ^S													
										2 ^P	2 ^B (FC) 6 3													
-03	(C) 1/2 (T) 2 (H) 1	1/2	-	5	0.50		20	99.5		1.625 ^L R.I.	1.637 ^R R.I.													
										2 ^M	1 ^S													
										2 ^P	2 ^B (FC) 6 3													
-04	(C) 1 (T) 2 (H) 1	1/2	-	ND	-		20	100	NF	^L R.I.	^R R.I.													
										M	S													
										P	B (FC)													
-05	(C) 1 (T) 2 (H) 1	1/2	-	ND	-		20	100	NF	^L R.I.	^R R.I.													
										M	S													
										P	B (FC)													
-06	(C) 2 (T) 2 (H) 9	1/2	-	ND	-		20	100	NF	^L R.I.	^R R.I.													
										M	S													
										P	B (FC)													
-07	(C) 2 (T) 2 (H) 1	1/2	-	ND	-		20	100	NF	^L R.I.	^R R.I.													
										M	S													
										P	B (FC)													
-08	(C) 1 (T) 2 (H) 1	1/2	-	ND	-		20	100	NF	^L R.I.	^R R.I.													
										M	S													
										P	B (FC)													
-09	(C) 2/3 (T) 2 (H) 1	1/2	-	ND	-		20	100	NF	^L R.I.	^R R.I.													
										M	S													
										P	B (FC)													
-09 QC	(C) 2/3 (T) 2 (H) 1	1/2	-	ND	-		20	100	NF	^L R.I.	^R R.I.													
										M	S													
										P	B (FC)													

Analyst: G. Ullet

Date: 10/11/12

Computer:

Date:

Room Temp (C): 22.3°C

EMSL Analytical, Inc., 200 Route 130 North, Cinnaminson, NJ 08077

PLM7.9.0



POINT COUNT WORKSHEET

Client: EPA Burlington Hill

Date: 10/11/12

Billing #: 041226130

Sample: <u>-01 CARB A</u>						
PREP #	Asbestos	Cellulose	Glass	Other Fib	Non Fib	Empty
1	0				50	
2	0				50	
3	1				49	
4	0				50	
5	0				50	
6	1				49	
7	0				50	
8	0				50	
9						
10						
Total	2				398	

Results: 0.50 % Actinolite

Sample: <u>-02 CARB A</u>						
PREP #	Asbestos	Cellulose	Glass	Other Fib	Non Fib	Empty
1	1				49	
2	0				50	
3	0				50	
4	0				50	
5	1				49	
6	1				49	
7	0				50	
8	0				50	
9						
10						
Total	3				397	

Results: 0.75 % Actinolite

Sample: <u>-03 CARB A</u>						
PREP #	Asbestos	Cellulose	Glass	Other Fib	Non Fib	Empty
1	0				50	
2	0				50	
3	0				50	
4	0				50	
5	1				49	
6	0				50	
7	1				49	
8	0				50	
9						
10						
Total	2				398	

Results: 0.50 % Actinolite

Sample:						
PREP #	Asbestos	Cellulose	Glass	Other Fib	Non Fib	Empty
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Total						

Results: _____

Analyst

CALCULATIONS: $P = (AP * 100) / TP$

P = Percentage of Asbestos TP = Total number of non-empty Point

AP = number of Asbestos Points

NOTE: IF AP = 0 after completion of analysis and no asbestos was observed, Report "NI"

NOTE: IF AP = 0 after completion of analysis but asbestos was observed, Report "< Analytical Sensitivity"

Controlled Document

Confidential Business Information/Property of EMSL Analytical, Inc.

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Client:

Logged:

TAT:

Address:

Date/Time Due:

Fax:

Project:

REFERENCE SLIDES

Special Instructions

Order Number

Macroscopic			Treatment	COMPONENT TYPES						MICROSCOPIC							
COLOR (C)				Asbestos		Fibrous		Non-Fibrous		Optical Properties							
1 Brown 4 White 7 Black 2 Gray 5 Red 8 Silver 3 Tan 6 Various 9 Blue 10 Yellow			1 Teased 2 Crushed 3 Dissolve 4 Ashed 5 Heated 6 Melted	1 Chrysotile 2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite		7 Cellulose 8 Glass 9 Min. Wool 10 Synthetic 11 Other 12 Wollastonite 13 Hair		14 Quartz 15 Mica 16 Gypsum 17 Cal. Carbonate 18 Matrix 19 Perlite 20 Other		<div style="display: flex; justify-content: space-between;"> <div> 1. Wavy 2. Straight 3. Uniform Diameter 4. Ribbon-Like 5. Tapered Ends </div> <div> 6. Sealed 7. Pitted 8. Modula 9. Exotic Shapes 10. Other </div> <div> 1. + 2. - 3. Variable </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> Pleochroism (P) 1. Yes 2. No </div> <div> Birefringence (B) 1. Low: 0.010 2. Med 0.010-0.050 3. High >0.050 4. None 0.00 or isotropic </div> <div> Fiber Color (FC) 1. White 2. Brown 3. Beige 4. Blue 5. Green 6. Colorless </div> <div> Extinction (E) 1. Parallel 2. Symmetrical 3. Oblique 4. Undulous </div> </div>							
TEXTURE (T)				Stereo Asbestos Est. %		Other Fibrous		Non-Fibrous		Non-Asb Char.		Optical Properties					
1 Fibrous 2 Non-Fibrous 3 Other				Asbestos Type	% of Asbestos	Type	%	Type	%	Ex. E4							
HOMOGENEITY (H)												Optical Properties					
1 Homogeneous 3 OTHER 2 Heterogeneous 4 Layers (#)																	
Sample	Macrosc.	Treat															
10/6 (G)	(C) N/A (T) N/A (H) N/A			1	50			20	50			1.552 R.I. 1 M 2 P 1 B (FC) 6 1 E	1.557 R.I. 1 S 2 B 1 E	22.22			
10/8 (F)	(C) N/A (T) N/A (H) N/A			1	8			20	92			1.550 R.I. 1 M 2 P 2 B (FC) 6 1 E	1.560 R.I. 1 S 2 B 1 E	21.92			
10/9 (K)	(C) N/A (T) N/A (H) N/A			1	18			20	82			1.550 R.I. 1 M 2 P 1 B (FC) 6 1 E	1.557 R.I. 1 S 2 B 1 E	22.22			
10/10 (H)	(C) N/A (T) N/A (H) N/A			1	30			20	70			1.552 R.I. 1 M 2 P 1 B (FC) 6 1 E	1.560 R.I. 1 S 2 B 1 E	22.92			
10/11 (G)	(C) N/A (T) N/A (H) N/A			1	65			20	35			1.552 R.I. 1 M 2 P 1 B (FC) 6 1 E	1.557 R.I. 1 S 2 B 1 E	22.32			
	(C) (T) (H)							20				1 R.I. M P B (FC) E	1 R.I. S E				
	(C) (T) (H)							20				1 R.I. M P B (FC) E	1 R.I. S E				
	(C) (T) (H)							20				1 R.I. M P B (FC) E	1 R.I. S E				
	(C) (T) (H)							20				1 R.I. M P B (FC) E	1 R.I. S E				

Analyst: G. Uliet Date: 10/6/12 Computer: _____ Date: _____

Room Temp (C): 22.22

EMSL Analytical, Inc.

PLM7.9.0



4. QC Data Reports/Logs

Monthly PLM Bulk QC Summary

Laboratory: Cinnaminson

Report # 3

Month/Year: Oct-12

	Date	Reference #	Sample #	Original		QC		Variance		Conclusion
				Analyst	Result	Analyst	Result	Original	QC	
1	10/11/12	041226130-0005	12090109	GV	0	GB	0	0.00	0.00	Pass

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Client:

Logged:

TAT:

QC

Address:

Date/Time Due:

Fax:

Project:

Special Instructions

Order Number

041226130

COMPONENT TYPES										MICROSCOPIC				
Macroscopic			Treatment	Asbestos		Fibrous		Non-Fibrous		Optical Properties				
COLOR (C) 1 Brown 4 White 7 Black 2 Gray 5 Red 8 Silver 3 Tan 6 Various 9 Blue 10 Yellow TEXTURE (T) 1 Fibrous 2 Non-Fibrous 3 Other HOMOGENEITY (H) 1 Homogeneous 3 OTHER 2 Heterogeneous 4 Layers (#)			1 Teased 2 Crushed 3 Dissolve 4 Ashed 5 Heated 6 Melted	1 Chrysotile 2 Amosite 3 Anthophyllite 4 Tremolite 5 Actinolite 6 Crocidolite	7 Cellulose 8 Glass 9 Min. Wool 10 Synthetic 11 Other 12 Wollastonite 13 Hair	14 Quartz 15 Mica 16 Gypsum 17 Cal. Carbonate 18 Matrix 19 Perlite 20 Other	Morphology (M) 1. Wavy 6. Scaled 1. + 2. Straight 7. Pitted 2. - 3. Uniform Diameter 8. Medulla 3. Variable 4. Ribbon-Like 9. Exotic Shape 5. Tapered Ends 10. Other Pleochroism (P) 1. Yes 2. No Birefringence (B) 1 Low: 0.010 2 Med 0.010-0.050 3 High >0.050 4 None 0.00 or isotropic Fiber Color (FC) 1 White 2 Brown 3 Beige 4 Blue 5 Green 6 Colorless Sign of Elongation (S) 1. Parallel 2. Symmetrical 3. Oblique 4. Undulose							
Sample	Macrosc.	Treat	Stereo Asbestos Est. %	Asbestos Type	% of Asbestos	Other Fibrous Type	%	Non-Fibrous Type	%	Non-Asb Char. Ex. E4	Optical Properties			
-5	(C) 1 (T) 2 (H) 1	1		ND	-			20	100		⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		
	(C) 1 (T) 2 (H) 1							20			⊥ R.I.	R.I.		



5. Client and EMSL Internal Chains of Custody

041226130

Sample Custody & Analysis Required Form

Project Name Burlington Hill		Project Code 102Z		EPA Project Manager/Phone Number Andy Smith 206 553 1750		Method of Shipping/Carrier Fed Ex		Lab Bill Number (if known prior to sealing) 6849844	
Account Code 2006-6560-0		Principal Recorder Julie Wohle R		Matrix Codes: 10 Water/Liquid (Total) 20 Water/Liquid (Filtered) 40 Sediment/Soil/Solid/Bulk 70 Tissue 80 Oil/Solvent 44 Air filter 42 Wipe/Swab 00		Matrix Codes: A - HCl B - HNO ₃ C - NaOH D - H ₂ SO ₄ E - ascorbic acid, then HCl F - ascorbic acid, then HCl G - Na ₂ S ₂ O ₈ +EDTA H - EDTA I - No chemical preservation J - Bottles pre-preserved at lab K - To be preserved at the lab L - ascorbic acid, then HCl M - Na ₂ S ₂ O ₈ if required by plan.		Check all that apply <input type="checkbox"/> Enforce/Custody <input type="checkbox"/> Possible Toxic/Hazardous <input type="checkbox"/> Data Confidential	
Sampler's comments for the laboratory: CARB 435 with Field of View (PLM Level A 0.25%) Contact Julie Wohle at 206 553 1079 Q's.		Sample Station Description/Field Measurements Location 1 - West Location 1 - Middle Location 1 - East Location 2 - West of Grand Location 3 - North of Grand Location 3 - South of Grand Location 4 - North End Location 4 - South End		Enter the number of containers for each preservative type followed by the appropriate preservation code P or: A - HCl B - HNO ₃ C - NaOH D - H ₂ SO ₄ E - ascorbic acid, then HCl F - ascorbic acid, then HCl G - Na ₂ S ₂ O ₈ +EDTA H - EDTA I - No chemical preservation J - Bottles pre-preserved at lab K - To be preserved at the lab L - ascorbic acid, then HCl M - Na ₂ S ₂ O ₈ if required by plan.		Check here if the cooler is used <input type="checkbox"/>		Enter the letter or range of letters on each container for each group of containers for each unique sample number must have a unique letter on it.	
EPA Sample number Yr Wk Sequence		Sampling Date & Time Yr Mo Day Time		Matrix Q P		Sample Station Q P		Sample Station Q P	
12 09 01 02 12 09 26 11 10 40		12 09 26 11 10 40		12 09 26 11 10 40		12 09 26 11 10 40		12 09 26 11 10 40	
12 09 01 05 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 08 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 10 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 12 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 15 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 18 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 21 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 24 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 27 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 30 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 33 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
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12 09 01 39 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
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12 09 01 45 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 48 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 51 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 54 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 57 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
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12 09 01 63 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
12 09 01 66 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12 04 0	
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12 09 03 14 12 09 26 11 12 04 0		12 09 26 11 12 04 0		12 09 26 11 12					

INTERNAL CHAIN OF CUSTODY

Order ID: 041226130

10/4/2012 4:09:28 PM

Attn: EPA Region 10- Julie Wroble
Ecology & Environment 11/6/12-DM

Customer ID: MISC-SC ECOL44 11/6/12-DM
Customer PO:
Received: 10/04/12 2:20 PM

Fax: Phone:
Project: BURLINGTON HILL/ 1022
1022 11/6/12-DM

EMSL Order: 041226130
EMSL Proj ID:
Cust COC ID

REPORT TO INSTRUCTIONS

- ☐ Send Receipt Confirmation Emails
☐ Email Report Only-Do not send hard copy
☐ No electronic signatures
☐ Project ID required
☐ Cust. COC ID required
☒ Miscellaneous account

Sales Rep and Comment: pfrasca

Instructions

BILL TO INSTRUCTIONS

- ☐ Exempt from prep charge
☐ Exempt from off hour min charges
☐ Exempt from layer/aliquot charges
☐ Email Invoice Only- Do not send hard copy.
☐ Credit Card on File
☐ P.O. Required

Billing Frequency

With Report -- Print and send an invoice for each Order ID

Use Billing Contact:

Accounting Terms: COD

Payment Directions: With Report

Instructions

Internal Comment

Test: PLM CARB 435 Level A

Matrix Bulk

TAT: 2 Week

Qty: 9

- ☐ Lab Opening Exempt For Test
☐ Prep Charge Exempt For Test
☐ Layer/Aliquot Charge Exempt For Test

Logged: kdreher

Date: 10/4/2012

Sample ☒ Acceptable

Condition: ☐ Unacceptable

Comments

10/17/12
MD

Prepped: DS

Date 10/8/12

Analyzed: G. V. Lieber

Date 10/11/12

Data Entry

Date 10/17/12

Screened: Y

Date 11/12/12

Mailed: DM

Date 11/12/12

Special Test Instructions

Lab Sample #	Cust. Sample #	Location	Due Date
041226130-0001	12090102	LOCATION 1- WEST	10/18/2012 2:20:00 PM
041226130-0002	12090104	LOCATION 1- MIDDLE	10/18/2012 2:20:00 PM
041226130-0003	12090105	LOCATION 1- EAST	10/18/2012 2:20:00 PM
041226130-0004	12090107	LOCATION 2- ALONG DRIVE-WAY	10/18/2012 2:20:00 PM
041226130-0005	12090109	LOCATION 2- WEST OF GARAGE	10/18/2012 2:20:00 PM
041226130-0006	12090111	LOCATION 3- NORTH END QUARRY	10/18/2012 2:20:00 PM
041226130-0007	12090112	LOCATION 3- SOUTH END QUARRY	10/18/2012 2:20:00 PM
041226130-0008	12090114	LOCATION 4- NORTH END	10/18/2012 2:20:00 PM

INTERNAL CHAIN OF CUSTODY

Order ID: 041226130

10/4/2012 4:09:28 PM

Attn: ~~EPA Region 10 - Julie Wroble~~
Ecology & Environment 11/6/12 DM

Customer ID: ~~MISC-SC~~ ECOL44 11/6/12 DM
Customer PO:
Received: 10/04/12 2:20 PM

Fax: Phone:
Project: BURLINGTON HILL/ 1022

EMSL Order: 041226130
EMSL Proj ID:
Cust COC ID

041226130-0009

12090115

LOCATION 4- SOUTH END

10/18/2012 2:20:00 PM



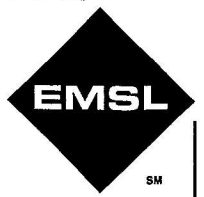
6. Equipment Performance Checks

Lab: 04 Cinnamison

Month / Year: October, 2012

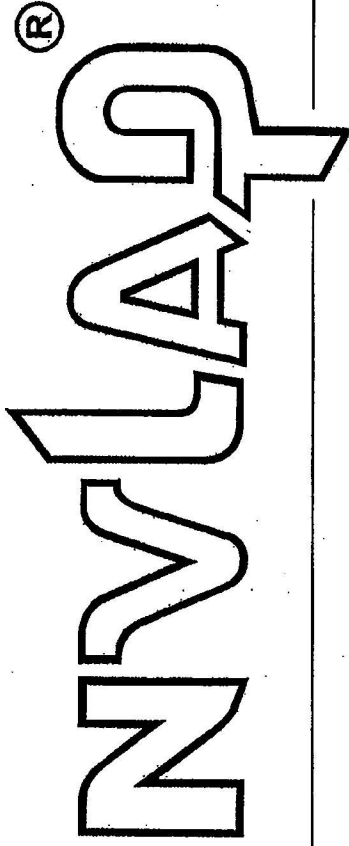
PLM Scope #: 01

* Daily contamination check includes checks of the following: Tools, Fine Table Salt, R.I. Oils, Work Surfaces, and Slides.



7. NVLAP/AIHA Certifications

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101048-0

EMSL Analytical, Inc.
Cinnaminson, NJ

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for.*

AIRBORNE ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2012-07-01 through 2013-06-30

Effective dates



A handwritten signature in dark ink, appearing to read "Michael D. Mello".

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
Mr. Stephen Siegel, CIH
Phone: 800-220-3675 Fax: 856-786-5973
E-Mail: ssiegel@emsl.com
URL: <http://www.emsl.com>

AIRBORNE ASBESTOS FIBER ANALYSIS (TEM)

NVLAP LAB CODE 101048-0

NVLAP Code Designation / Description

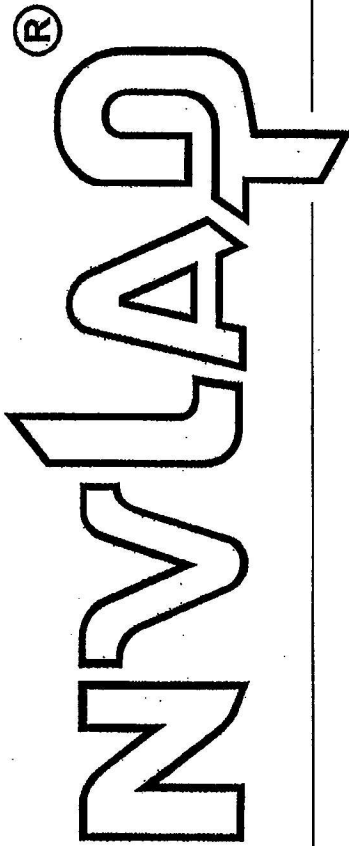
18/A02 U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

2012-07-01 through 2013-06-30

Effective dates

For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101048-0

EMSL Analytical, Inc.
Cinnaminson, NJ

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2012-07-01 through 2013-06-30

Effective dates



A handwritten signature in dark ink, appearing to read "D. M. L. Q.", is written over the official seal.

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
Mr. Stephen Siegel, CIH
Phone: 800-220-3675 Fax: 856-786-5973
E-Mail: ssiegel@emsl.com
URL: <http://www.emsl.com>

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 101048-0

NVLAP Code Designation / Description

18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
--------	--

2012-07-01 through 2013-06-30

Effective dates

For the National Institute of Standards and Technology



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|-------------------------------|-----------------------------------|
| ✓ INDUSTRIAL HYGIENE | Accreditation Expires: 07/01/2014 |
| ✓ ENVIRONMENTAL LEAD | Accreditation Expires: 07/01/2014 |
| ✓ ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 07/01/2014 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

S. D. Allen Iske, PhD, CIH, CSP
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 12: 03/29/2012

Date Issued: 07/31/2012



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**
Issue Date: 07/31/2012

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 02/01/1989

IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte (for internal methods only)
Chromatography Core	Gas Chromatography	GC/ FID	NIOSH 1003	
			NIOSH 1005	
			NIOSH 1400	
			NIOSH 1500	
			NIOSH 1550	
			NIOSH 1603	
			NIOSH 2000	
		GC/ECD	NIOSH 5502	
			NIOSH 5503	
			NIOSH 5510	
		GC/NPD	OSHA 1010	
			NIOSH 2551	
	GC/MS		EPA TO-15	
	Gas Chromatography (Diffusive Samplers)		NIOSH 1501	
	Ion Chromatography (IC)		NIOSH 6004	
			NIOSH 6011	
			NIOSH 7903	
			OSHA ID-214	
			OSHA ID-215	
	Liquid Chromatography	HPLC/FL	NIOSH 5506	
		HPLC/UV	NIOSH 2016	



IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte (for internal methods only)
Spectrometry Core	Atomic Absorption	CVAA	NIOSH 6009	
			OSHA ID-145	SOP LM-015
			OSHA ID-145	SOP LM-013
		FAA	NIOSH 7082	
		GFAA	NIOSH 7105	
	Inductively-Coupled Plasma	ICP/MS	NIOSH 7300 Modified	
		ICP/AES	NIOSH 7300	
	X-ray Diffraction (XRD)		NIOSH 7500	
			OSHA ID-142	
	UV/VIS (Colorimetric)		NIOSH 6010	
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)		EPA 600/R-93/116	
	Phase Contrast Microscopy (PCM)		NIOSH 7400	
	Transmission Electron Microscopy (TEM)		EPA AHERA - 40 CFR Part 763	
			NIOSH 7402	
Miscellaneous Core	Gravimetric		NIOSH 0500	
			NIOSH 0600	
			NIOSH 5524	
	Thermo-optical Analysis (TOA)		NIOSH 5040	

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- | | |
|--|--|
| <ul style="list-style-type: none"> ✓ AIHA-PAT Programs, LLC IHPAT Metals ✓ AIHA-PAT Programs, LLC IHPAT Organic Solvents ✓ AIHA-PAT Programs, LLC IHPAT Silica ✓ AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (3M) ☐ AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (SKC) ☐ AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (AT) ✓ AIHA-PAT Programs, LLC IHPAT Asbestos ☐ AIHA-PAT Programs, LLC Bulk Asbestos (BAPAT) ☐ AIHA-PAT Programs, LLC Beryllium (BePAT) ✓ HSE Workplace Analytical Scheme for Proficiency (WASP) (Formaldehyde) ☐ HSE Workplace Analytical Scheme for Proficiency (WASP) (Thermal Desorption Tubes) | <ul style="list-style-type: none"> ☐ Pharmaceutical Round Robin ☐ Compressed/Breathing Air Round Robin ✓ National Voluntary Laboratory Accreditation Program (NVLAP - determined at the time of site assessment) ☐ New York State Department of Health (NYS DOH – PCM and TEM) ✓ ERA Air and Emissions standards for indoor air quality ☐ Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, formerly BGIA) ☐ Institut de Recherche Robert-Sauvé en Santé et en Sécurité du Travail (IRSST) |
|--|--|



8. Customer Correspondence

McDaniel, Debrah

From: Woodke, Mark [MWoodke@ene.com]
Sent: Friday, October 12, 2012 10:04 AM
To: LaCerra, Charles
Cc: McDaniel, Debrah
Subject: RE: accounting and reporting - burlington hill project
Attachments: image001.jpg; image002.jpg; image003.jpg; image004.jpg; image005.jpg

Yes, these should be billed to me if I didn't answer already. When will the results be available? Thanks.

From: LaCerra, Charles [mailto:CLaCerra@EMSL.com]
Sent: Tuesday, October 09, 2012 11:51 AM
To: Woodke, Mark
Cc: McDaniel, Debrah
Subject: RE: accounting and reporting - burlington hill project

Your login client ID is ECOL44. Just checking to see if these are samples that are bill to and report to E&E. Will check on waiver forms. Charlie



Charles LaCerra | *Special Projects and Sample Receiving Manager*

EMSL Analytical, Inc. | 200 Route 130 North | Cinnaminson, NJ 08077

Phone: 856-303-2540 | Fax: 856-786-0235 | Toll Free: 800-220-3675

Lab Hours: Mon-Friday 7AM-10PM, Saturday 8AM-5PM, Sunday On-Call

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From: Woodke, Mark [mailto:MWoodke@ene.com]
Sent: Tuesday, October 09, 2012 2:38 PM
To: LaCerra, Charles
Subject: RE: accounting and reporting - burlington hill project

Our system is having issues today so I can't check some things. This project is a new project separate from all others; EPA collected the samples and we are paying for the analyses. If ECOL44 is older than a few weeks, don't put it on that project. I'll make sure the PO gets sent out but our system might not be back up until sometime tomorrow.

Also, I was told that we need some waiver forms and at least one BOA modification form sent to us before we can pay some older invoices; can you check with Robert and make sure these are being dealt with? Sorry I can't give you specifics since we have quite a few projects with you right now. Thanks.

From: LaCerra, Charles [mailto:CLaCerra@EMSL.com]
Sent: Tuesday, October 09, 2012 11:28 AM

To: Woodke, Mark
Subject: FW: accounting and reporting - burlington hill project

Mark: should samples associated with this email be logged in and billed to ECOL44?



Charles LaCerra | *Special Projects and Sample Receiving Manager*

EMSL Analytical, Inc. | 200 Route 130 North | Cinnaminson, NJ 08077

Phone: 856-303-2540 | Fax: 856-786-0235 | Toll Free: 800-220-3675

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From: Nurthen, Michael
Sent: Tuesday, October 09, 2012 1:29 PM
To: Cahill, Ed; LaCerra, Charles
Subject: FW: accounting and reporting - burlington hill project

By the way, Julie Wroble said she had spoken with both of you here, so I am forwarding to make sure it is logged in correctly, etc.

Andy Smith Smith.Andy@epamail.epa.gov
Mark Woodke MWoodke@ene.com
Jed Januch Januch.Jed@epamail.epa.gov
Jennifer Crawford Crawford.Jennifer@epamail.epa.gov



Michael Nurthen | *Sales Account Representative*

EMSL Analytical, Inc. | 200 Route 130 North | Cinnaminson, NJ 08077

Phone: 856-303-2564 | Fax: 856-786-5971 | Toll Free: 800-220-3675

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From: Julie Wroble [<mailto:Wroble.Julie@epamail.epa.gov>]
Sent: Tuesday, October 09, 2012 1:24 PM
To: Nurthen, Michael
Cc: Andy Smith; MWoodke@ene.com; Jed Januch; Jennifer Crawford
Subject: accounting and reporting - burlington hill project

Mike:

Andy (EPA) and Mark (E & E) have more information about the accounting details and reporting details required for this work. I'm also CC'ing Jed Januch and Jennifer Crawford of EPA who deal with our laboratory (MEL).

Thank you.

Julie Wroble
Region 10 Toxicologist
206/553-1079

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McDaniel, Debrah

From: Woodke, Mark [MWoodke@ene.com]
Sent: Thursday, November 01, 2012 12:58 PM
To: McDaniel, Debrah
Subject: RE: 041226130
Attachments: image002.jpg; image003.jpg; image004.jpg; image005.jpg; image006.jpg

I'll forward them.

From: McDaniel, Debrah [mailto:dmcdaniel@EMSL.com]
Sent: Thursday, November 01, 2012 9:58 AM
To: Woodke, Mark
Subject: 041226130

Mark,

I will need to make revisions to EMSL order 041226130-Burlington Hill Project. I believe you did not receive an EDD as well? Please let me know who is included in the distribution list for this project, or if you would like to forward them to these contacts.

Thank you,



Debrah McDaniel | Special Projects Assistant
EMSL Analytical, Inc. | 200 Route 130 North | Cinnaminson, NJ 08077
Phone: 856-858-4800 Ext 2207 | Fax: 856-786-0235 | Toll Free: 800-220-3675
Lab Hours: Mon-Friday 7AM-10PM, Saturday 8AM-5PM, Sunday On-Call

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McDaniel, Debrah

From: Woodke, Mark [MWoodke@ene.com]
Sent: Friday, November 02, 2012 9:24 AM
To: McDaniel, Debrah
Subject: RE: 041226130
Attachments: image002.jpg; image003.jpg; image004.jpg; image005.jpg; image006.jpg

Yes, please send a data package.

From: McDaniel, Debrah [mailto:dmcdaniel@EMSL.com]
Sent: Friday, November 02, 2012 6:09 AM
To: Woodke, Mark
Subject: RE: 041226130

Mark,
I sent over the invoice for this project yesterday so you may have it for end of the month billing. There is a data package charge on the invoice based on the project summary paperwork attached above. I just wanted to confirm that you will require a data package for the Burlington Hill project so I may get this sent out and also finalize the invoice. Please let me know as soon as you can.

Thank you,



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From: Woodke, Mark [mailto:MWoodke@ene.com]
Sent: Thursday, November 01, 2012 12:58 PM
To: McDaniel, Debrah
Subject: RE: 041226130

I'll forward them.

From: McDaniel, Debrah [mailto:dmcdaniel@EMSL.com]
Sent: Thursday, November 01, 2012 9:58 AM
To: Woodke, Mark
Subject: 041226130

Mark,

I will need to make revisions to EMSL order 041226130-Burlington Hill Project. I believe you did not receive an EDD as well? Please let me know who is included in the distribution list for this project, or if you would like to forward them to these contacts.

Thank you,



Debrah McDaniel | *Special Projects Assistant*

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